

Series 240 and 250

Valves with perforated plug



DIN and ANSI versions

Application

Optimized trim for critical conditions in applications

Nominal size DN 25 to 500 · NPS 1 to 20
Nominal pressure PN 16 to 400 · Class 150 to 2500
Medium temperature -273 to 500 °C · -460 to 930 °F



The perforated plug is mainly used for valves in steam applications, particularly for operation in the wet steam region. Additional fields of application include the control of two-phase medium flow, liquid media which vaporize on the outlet side (flashing valves) or emergency relief valves (blow-off valves) involving gas relief in which flow velocities lower than 0.3 Mach cannot be kept.

Special features

- Use in Series 240 and 250 Valves with bodies made of 1.0619/A 216 WCC or higher grade steel
- Combined with seats of Series 240 and 250 Valves
- Permissible actuator forces correspond to those of standard valve trims
- Use with media containing solids is to be avoided

Versions

Valves with leakage class IV

- **Type 3241** · Globe valves up to DN 300 (NPS 12) and PN 40 (Class 300) · Trim and characteristic according to Table 1 · Refer to T 8015 EN/T 8012 EN
- **Type 3248** · Cryogenic valves with globe or angle-pattern body up to DN 150 (NPS 6) and PN 100 (Class 600) · Trim and characteristic according to Tables 1 and 2 · Refer to T 8093 EN/T 8093-1 EN
- **Type 3251** (Fig. 1) · Globe valves up to DN 500 (NPS 20) and PN 400 (Class 2500) · Trim and characteristic according to Table 3 · Refer to T 8051 EN/ T 8052 EN
- **Type 3254** · Globe valves up to DN 500 (NPS 20) and PN 400 (Class 2500) · Trim and characteristic according to Table 4 · Refer to T 8060 EN/ T 8061 EN
- **Type 3256** (Fig. 2) · Angle valves up to DN 300 (NPS 12) and PN 400 (Class 2500) · Trim and characteristic according to Tables 3 to 5 · Refer to T 8065 EN/T 8066 EN

Options

- Higher leakage classes · On request

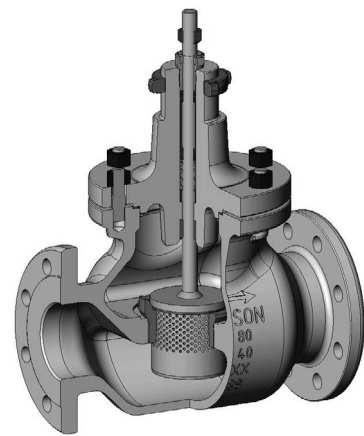


Fig. 1 · Type 3251 Globe Valve with perforated plug

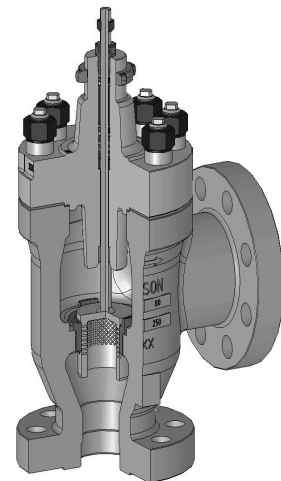


Fig. 2 · Type 3256 Angle Valve with perforated plug

Principle of operation

The medium flows through the perforated plug, splitting up the jet stream into numerous smaller jets to ensure low-noise energy transfer to the surrounding medium.

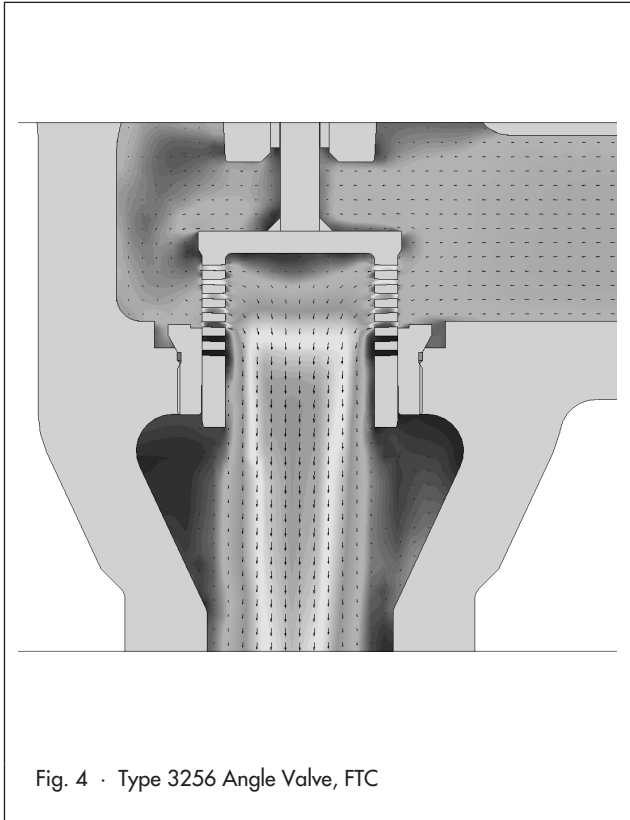
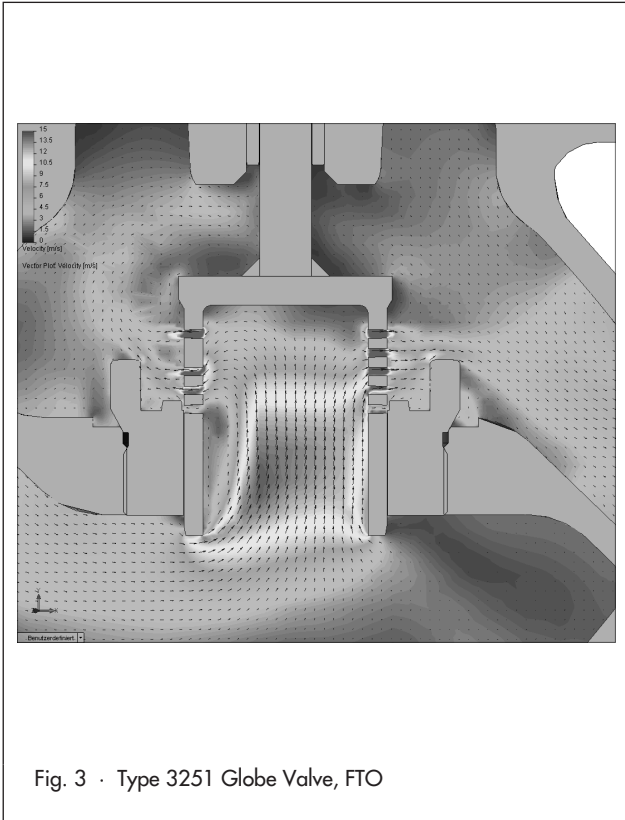


Table 1 · Technical data

Perforated plug		DIN	ANSI
Nominal size (depending on valve type)		DN 25 to 500	NPS 1 to 20
Nominal pressure (depending on valve type)		PN 16 to 400	Class 125 to 2500
Medium temperature range (depending on valve bonnet)	Type 3241	-200 to 450 °C	-328 to 842 °F
	Type 3248	-273 to 220 °C	-459 to 428 °F
	Type 3251/3254	-200 to 500 °C	-328 to 930 °F
	Type 3256	-200 to 500 °C	-328 to 930 °F
Max. perm. differential pressure		Same as standard V-port plug, refer to T 8000-4 EN	
Direction of flow	Type 3241/3248	Standard FTO	
	Type 3251/3254	Standard FTO	
	Type 3256	Standard FTC	
Leakage class (metal sealing)		Class IV according to IEC 60534-4 and DIN EN 1349	Class IV according to FCI 70-2
Characteristic		Equal percentage · Linear	
Rangeability		50:1	
Pressure balancing		See Tables 1 to 4	
Valve bonnet		Standard · Extension bonnet · Bellows seal	
Material			
Seat and plug		Selection depending on application	

Table 1 · Type 3241 Globe Valve and Type 3248 Cryogenic Valve · Direction of flow FTO

Table 1.1 · K_{VS} and C_V coefficients for Type 3241 and 3248 · Up to DN 150 (NPS 6) · Equal percentage characteristic

Series 240 · Equal percentage characteristic with direction of flow FTO																				
K_{VS}	4	6.3	10	16	25	36	40	54	63	80	100	120	160	160	250	360	420	630	1000	
C_V	5	7.5	12	20	30	42	47	62	75	95	120	140	190	190	290	420	485	735	1150	
K_V -I	3.6	5.7	9	14.5	22	32	36	47	57	72	90	100	144	144	225	320	375	560	900	
C_V -I	4.2	7	10.5	17	26	37	42	55	67	85	105	120	170	170	265	375	435	650	1040	
K_V -II			8	13	20	29	32	43	50	63	80	95	125	125	200	290	340	500	800	
C_V -II			9.5	15	23	34	37	50	60	75	95	110	145	145	235	335	390	580	950	
K_V -III	3	4.8	7.5	12	20			40	47	60	75			120	190	270	315	480		
C_V -III	3.5	5.6	9	14	23			47	55	70	90			140	220	315	365	560		
Seat Ø	mm	24	31	38	48	63	80	63	80	100	110	130	125	150	200	250	300			
Travel	mm	15						30						60						120
	in	0.59						1.18						2.36						4.72
Nominal DN	size NPS	Version without flow divider · Areas highlighted in gray indicate versions of Type 3241 also available with pressure balancing																		
25	1	•	•																	
32	–			•																
40	1½	•	•	•	•															
50	2	•	•	•	•	•														
65	2½		•	•	•	•	•													
80	3		•	•	•	•	•	•												
100	4								•	•	•	•								
125	–								•	•	•	•	•							
150	6								•	•	•	•	•	•						
200	8								•	•	•	•		•	•	•	•	•		
250	10								•	•	•	•		•	•	•	•	•	•	
300	12										•			•	•	•	•	•	•	
Nominal DN	size NPS	Version with flow divider St I · Areas highlighted in gray indicate versions of Type 3241 also available with pressure balancing																		
25	1																			
32	–	•	•	•																
40	1½	•	•	•	•															
50	2	•	•	•	•	•														
65	2½		•	•	•	•	•													
80	3		•	•	•	•	•	•												
100	4								•	•	•	•								
125	–								•	•	•	•	•							
150	6								•	•	•	•	•	•						
200	8								•	•	•	•		•	•	•	•	•		
250	10								•	•	•	•		•	•	•	•	•	•	
300	12										•			•	•	•	•	•	•	
Nominal DN	size NPS	Version with flow divider St II · Areas highlighted in gray indicate versions of Type 3241 also available with pressure balancing																		
25	1																			
32	–			•																
40	1½			•	•															
50	2			•	•	•														
65	2½			•	•	•	•													
80	3			•	•	•	•	•												
100	4								•	•	•	•								
125	–								•	•	•	•	•							
150	6								•	•	•	•	•	•						
200	8								•	•	•	•		•	•	•	•	•		
250	10								•	•	•	•		•	•	•	•	•	•	
300	12										•			•	•	•	•	•	•	
Nominal DN	size NPS	Version with flow divider St III · Areas highlighted in gray indicate versions of Type 3241 also available with pressure balancing																		
25	1																			
32	–		•																	
40	1½		•																	
50	2		•																	
65	2½		•	•	•	•														
80	3		•	•	•	•														
100	4								•											
125	–								•	•	•	•								
150	6								•	•	•	•	•							
200	8								•	•	•	•		•	•	•	•	•		
250	10								•	•	•	•		•	•	•	•	•	•	
300	12										•			•	•	•	•	•	•	

Table 1.2 · K_Vs and C_V coefficients for Type 3241 and 3248 · Up to DN 150 (NPS 6) · Linear characteristic

Series 240 · Linear characteristic with direction of flow FTO																			
K _V s	4	6.3	10	16	25	36	47	60	63	100	130	160	210	250	320	500	900	1300	
C _V	5	7.5	12	20	30	42	55	70	75	120	150	190	245	290	375	580	1040	1500	
K _V -I	3.6	5.7	9	14.5	22	32	43	54	57	90	115	144	190	225	280	450	800	1150	
C _V -I	4.2	7	10.5	17	26	37	50	62	67	105	135	170	220	265	325	520	930	1350	
K _V -II	-	-	8	13	20	29	38	48	50	80	105	125	170	200	255	400	720	1040	
C _V -II			9.5	15	23	34	45	56	60	95	120	145	200	235	295	465	835	1200	
K _V -III	3	4.8	7.5	12	20	27	-	-	47	75	80	-	-	190	230	375	675	-	
C _V -III	3.5	5.6	9	14	23	31	-	-	55	90	100	-	-	220	270	435	780	-	
Seat Ø	mm	24		31		38	48	63	80	63	80	100	110	130	125	150	200	250	300
Travel	mm	15						30						60				120	
	in	0.59						1.18						2.36				4.72	
Nominal size DN	size NPS	Version without flow divider · Areas highlighted in gray indicate versions of Type 3241 also available with pressure balancing																	
25	1	•	•																
32	-	•	•	•	•														
40	1½	•	•	•	•	•													
50	2	•	•	•	•	•	•												
65	2½		•	•	•	•	•	•											
80	3		•	•	•	•	•	•	•										
100	4									•	•	•							
125	-									•	•	•	•						
150	6									•	•	•		•					
200	8									•	•	•			•	•	•		
250	10									•	•	•			•	•	•	•	
300	12											•			•	•	•	•	•
Nominal size DN	size NPS	Version with flow divider St I · Areas highlighted in gray indicate versions of Type 3241 also available with pressure balancing																	
25	1																		
32	-	•	•	•	•														
40	1½	•	•	•	•	•													
50	2	•	•	•	•	•	•												
65	2½		•	•	•	•	•	•											
80	3		•	•	•	•	•	•	•										
100	4									•	•	•							
125	-									•	•	•	•						
150	6									•	•	•		•					
200	8									•	•	•			•	•	•		
250	10									•	•	•			•	•	•	•	
300	12											•			•	•	•	•	•
Nominal size DN	size NPS	Version with flow divider St II · Areas highlighted in gray indicate versions of Type 3241 also available with pressure balancing																	
25	1																		
32	-		•	•															
40	1½		•	•	•														
50	2		•	•	•	•													
65	2½		•	•	•	•	•												
80	3		•	•	•	•	•	•											
100	4									•	•	•							
125	-									•	•	•	•						
150	6									•	•	•		•					
200	8									•	•	•			•	•	•		
250	10									•	•	•			•	•	•	•	
300	12											•			•	•	•	•	•
Nominal size DN	size NPS	Version with flow divider St III · Areas highlighted in gray indicate versions of Type 3241 also available with pressure balancing																	
25	1																		
32	-		•																
40	1½		•																
50	2		•																
65	2½		•	•	•	•	•												
80	3		•	•	•	•	•												
100	4									•									
125	-									•	•								
150	6									•	•	•							
200	8									•	•	•			•	•	•		
250	10									•	•	•			•	•	•	•	
300	12											•			•	•	•	•	•

Table 2 · Type 3248 Cryogenic Angle Valve · Direction of flow FTC

Table 2.1 · K_{Vs} and C_V coefficients for Type 3248 · Equal percentage characteristic

Type 3248 · Equal percentage characteristic with direction of flow FTC															
K _{Vs}		4	6.3	10	13	20	32	36	47	54	70	85	105	144	
C _V		5	7.5	12	15	23	37	42	55	62	80	100	121	170	
Seat Ø	mm	24		31	38	48	63	80	63	80	80	100	110	130	
Travel	mm	15							30						
	in	0.59							1.18						
Nominal size		Version without flow divider													
DN	NPS														
25	1	•	•												
32	–	•	•	•											
40	1½	•	•	•	•										
50	2	•	•	•	•	•									
65	2½		•	•	•	•	•								
80	3		•	•	•	•	•	•							
100	4								•	•	•	•			
125	–								•	•	•	•	•		
150	6								•	•	•	•		•	

Table 2.2 · K_{Vs} and C_V coefficients for Type 3248 · Linear characteristic

Type 3248 · Linear characteristic with direction of flow FTC															
K _{Vs}		4	6.3	10	13	20	32	40	50	54	85	115	144	190	
C _V		5	7.5	12	15	23	37	47	60	62	100	135	170	220	
Seat Ø	mm	24		31		38	48	63	80	63	80	100	110	130	
Travel	mm	15							30						
	in	0.59							1.18						
Nominal size		Version without flow divider													
DN	NPS														
25	1	•	•												
32	–	•	•	•	•										
40	1½	•	•	•	•	•									
50	2	•	•	•	•	•	•								
65	2½		•	•	•	•	•	•							
80	3		•	•	•	•	•	•	•						
100	4									•	•	•			
125	–									•	•	•	•		
150	6									•	•	•		•	

Table 3 · Type 3251 Globe Valve and Type 3256 Angle Valve · Direction of flow FTO

Table 3.1 · K_{VS} and C_V coefficients for Type 3251 and Type 3256 · Equal percentage characteristic

Series 250 · Equal percentage characteristic with direction of flow FTO																					
K_{VS}	4	6.3	10	16	25	36	54	63	80	100	160	250	360	420	630	1000	1350	1650	2500		
C_V	5	7.5	12	20	30	42	62	75	95	120	190	290	420	485	735	1150	1560	1900	2900		
K_V -I	3.6	5.7	9	14.5	22	32	47	57	72	90	144	225	320	375	560	900	1200	1500	2250		
C_V -I	4.2	7	10.5	17	26	37	55	67	85	105	170	265	375	435	650	1040	1400	1730	2600		
K_V -II	3.2	5	8	13	20	29	43	50	63	80	125	200	290	340	500	800	1080	1320	-		
C_V -II	3.7	6	9.5	15	23	34	50	60	75	95	145	235	335	390	580	950	1250	1530	-		
K_V -III	3	4.8	7.5	12	20	27	40	47	60	75	120	190	270	315	480	750	1000	1250	-		
C_V -III	3.5	5.6	9	14	23	31	47	55	70	90	140	220	315	365	560	880	1150	1450	-		
Seat Ø	mm	24	31	38	50			63	80			100	125	150	200		250	300	350	400	500
Travel	mm	15				30				60				120							
	in	0.59				1.18				2.36				4.72							
Nominal size	DN	NPS	Version without flow divider · Areas highlighted in gray indicate versions also available with pressure balancing																		
25	1	•	•																		
40	1½	•	•	•	•																
50	2	•	•	•	•	•	•														
80	3	•	•	•	•	•	•	•	•	•											
100	4				•	•	•	•	•	•	•										
150	6						•	•	•	•	•	•									
200	8							•	•	•	•	•	•	•	•						
250	10							•	•	•	•	•	•	•	•	•					
300	12									•	•	•	•	•	•	•	•				
400	16											•	•	•	•	•	•	•	•	•	
500	20														•	•	•	•	•	•	
Nominal size	DN	NPS	Version with flow divider St I · Areas highlighted in gray indicate versions also available with pressure balancing																		
25	1	•	•																		
40	1½	•	•	•	•																
50	2	•	•	•	•	•	•														
80	3	•	•	•	•	•	•	•	•	•											
100	4				•	•	•	•	•	•	•										
150	6						•	•	•	•	•	•	•								
200	8							•	•	•	•	•	•	•	•						
250	10							•	•	•	•	•	•	•	•	•					
300	12									•	•	•	•	•	•	•	•				
400	16											•	•	•	•	•	•	•	•	•	
500	20														•	•	•	•	•	•	
Nominal size	DN	NPS	Version with flow divider St II · Areas highlighted in gray indicate versions also available with pressure balancing																		
25	1																				
40	1½																				
50	2	•	•	•	•	•	•														
80	3	•	•	•	•	•	•	•	•	•											
100	4				•	•	•	•	•	•	•										
150	6						•	•	•	•	•	•	•								
200	8							•	•	•	•	•	•	•	•	•					
250	10							•	•	•	•	•	•	•	•	•	•				
300	12									•	•	•	•	•	•	•	•	•			
400	16											•	•	•	•	•	•	•	•	•	
500	20														•	•	•	•	•	•	
Nominal size	DN	NPS	Version with flow divider St III · Areas highlighted in gray indicate versions also available with pressure balancing																		
25	1																				
40	1½																				
50	2	•	•																		
80	3	•	•	•	•	•	•														
100	4				•	•	•	•													
150	6						•	•	•	•	•										
200	8							•	•	•	•	•	•								
250	10							•	•	•	•	•	•	•							
300	12									•	•	•	•	•	•						
400	16											•	•	•	•	•	•	•	•	•	
500	20														•	•	•	•	•	•	

*1) Pressure balancing only up to PN 160/Class 900

Table 3.2 · K_{Vs} and C_V coefficients for Type 3251 and Type 3256 · Linear characteristic

Series 250 · Linear characteristic with direction of flow FTO																		
K _{Vs}	4	6.3	10	16	25	40	63	100	130	250	320	500	900	1300	1700	2100	3200	
C _V	5	7.5	12	20	30	47	75	120	150	290	375	580	1040	1500	2000	2450	3700	
K _{V-I}	3.6	5.7	9	14.5	22	36	57	90	115	225	280	450	800	1150	1530	1900	2900	
C _{V-I}	4.2	7	10.5	17	26	42	67	105	135	265	325	520	930	1350	1800	2200	3300	
K _{V-II}	3.2	5	8	13	20	32	50	80	105	200	255	400	720	1030	1350	1680	-	
C _{V-II}	3.7	6	9.5	15	23	37	60	95	120	235	295	465	835	1200	1560	1940	-	
K _{V-III}	3	4.8	7.5	12	20	30	47	75	100	190	230	375	675	950	1275	1600	-	
C _{V-III}	3.5	5.6	9	14	23	35	55	90	120	220	270	435	780	1100	1475	1860	-	
Seat Ø	mm	24		31		38	50	63	80	100	125	150	200	250	300	350	400	500
Travel	mm	15				30				60				120				
	in	0.59				1.18				2.36				4.72				
Nominal size	DN	NPS	Version without flow divider · Areas highlighted in gray indicate versions also available with pressure balancing															
25	1		•	•														
40	1½		•	•	•	•	•											
50	2		•	•	•	•	•	•										
80	3		•	•	•	•	•	•	•									
100	4						•	•	•	•								
150	6							•	•	•	•	•						
200	8								•	•	•	•	•					
250	10								•	•	•	•	•	•				
300	12									•	•	•	•	•	•			
400	16										•	•	•	•	•	•	•	
500	20											•	•	•	•	•	•	•
Nominal size	DN	NPS	Version with flow divider St I · Areas highlighted in gray indicate versions also available with pressure balancing															
25	1		•	•														
40	1½		•	•	•	•	•											
50	2		•	•	•	•	•	•										
80	3		•	•	•	•	•	•	•									
100	4						•	•	•	•								
150	6							•	•	•	•	•						
200	8								•	•	•	•	•					
250	10								•	•	•	•	•	•				
300	12									•	•	•	•	•	•			
400	16										•	•	•	•	•	•	•	
500	20											•	•	•	•	•	•	•
Nominal size	DN	NPS	Version with flow divider St II · Areas highlighted in gray indicate versions also available with pressure balancing															
25	1																	
40	1½																	
50	2		•	•	•	•	•	•										
80	3		•	•	•	•	•	•	•									
100	4						•	•	•	•								
150	6							•	•	•	•	•						
200	8								•	•	•	•	•					
250	10								•	•	•	•	•	•				
300	12									•	•	•	•	•	•			
400	16										•	•	•	•	•	•	•	
500	20											•	•	•	•	•	•	•
Nominal size	DN	NPS	Version with flow divider St III · Areas highlighted in gray indicate versions also available with pressure balancing															
25	1																	
40	1½																	
50	2		•	•														
80	3		•	•	•	•	•	•										
100	4						•	•	•									
150	6							•	•	•	•							
200	8								•	•	•	•						
250	10								•	•	•	•	•					
300	12									•	•	•	•	•				
400	16										•	•	•	•	•	•	•	
500	20											•	•	•	•	•	•	•

*1) Pressure balancing only up to PN 160/Class 900

Table 4 · Type 3254 Globe Valve and Type 3256 Angle Valve · Direction of flow FTO

Table 4.1 · K_{VS} and C_V coefficients for Type 3254 and Type 3256 · Up to DN 300 (NPS 12) · Equal percentage characteristic

Series 250 · Equal percentage characteristic with direction of flow FTO														
K_{VS}		54	63	80	100	160	250	360	420	630	1000	1350	1650	2500
C_V		62	75	95	120	190	290	420	485	735	1150	1560	1900	2900
K_{V-I}		47	57	72	90	144	225	320	375	560	900	1200	1500	2250
C_{V-I}		55	67	85	105	170	265	375	435	650	1040	1400	1730	2600
K_{V-II}		43	50	63	80	125	200	290	340	500	800	1080	1320	-
C_{V-II}		50	60	75	95	145	235	335	390	580	950	1250	1530	
K_{V-III}		40	47	60	75	120	190	270	315	480	750	1000	1250	-
C_{V-III}		47	55	70	90	140	220	315	365	560	880	1150	1450	
Seat Ø	mm	63	80		100	125	150	200		250	300	350	400	500
Travel	mm	30				60				120				
	in	1.18				2.36				4.72				
Nominal size		Version without flow divider · Areas highlighted in gray indicate versions also available with pressure balancing												
DN	NPS													
80	3	•	•	•										
100	4	•	•	•	•									
150	6	•	•	•	•	•	•							
200	8		•	•	•	•	•	•	•					
250	10		•	•	•	•	•	•	•	•				
300	12				•	•	•	•	•	•	•			
400	16						•	•	•	•	•	•	•	
500	20									•	•	•	•	•
Nominal size		Version with flow divider St I · Areas highlighted in gray indicate versions also available with pressure balancing												
DN	NPS													
80	3	•	•	•										
100	4	•	•	•	•									
150	6	•	•	•	•	•	•							
200	8		•	•	•	•	•	•	•					
250	10		•	•	•	•	•	•	•	•				
300	12				•	•	•	•	•	•	•			
400	16						•	•	•	•	•	•	•	
500	20									•	•	•	•	•
Nominal size		Version with flow divider St II · Areas highlighted in gray indicate versions also available with pressure balancing												
DN	NPS													
80	6	•	•*)	•*)										
100	4	•	•	•	•*)									
150	6	•	•	•	•	•	•*)							
200	8		•	•	•	•	•	•*)	•*)					
250	10		•	•	•	•	•	•	•	•*)				
300	12				•	•	•	•	•	•	•*)			
400	16						•	•	•	•	•	•	•	•*)
500	20									•	•	•	•	•
Nominal size		Version with flow divider St III · Areas highlighted in gray indicate versions also available with pressure balancing												
DN	NPS													
80	3													
100	4	•												
150	6	•	•	•	•	•								
200	8		•	•	•	•	•							
250	10		•	•	•	•	•	•	•					
300	12				•	•	•	•	•	•				
400	16						•	•	•	•	•	•		
500	20									•	•	•	•	

*) Pressure balancing only up to PN 160/Class 900

Table 4.2 · K_{VS} and C_V coefficients for Type 3254 and Type 3256 · Up to DN 300 (NPS 12) · Linear characteristic

Series 250 · Linear characteristic with direction of flow FTO												
K _{VS}		63	100	130	250	320	500	900	1300	1700	2100	3200
C _V		75	120	150	290	375	580	1040	1500	2000	2450	3700
K _{V-I}		57	90	115	225	280	450	800	1150	1530	1900	2900
C _{V-I}		67	105	135	265	325	520	930	1350	1800	2200	3300
K _{V-II}		50	80	105	200	255	400	720	1030	1350	1680	-
C _{V-II}		60	95	120	235	295	465	835	1200	1560	1940	
K _{V-III}		47	75	100	190	230	375	675	950	1275	1600	-
C _{V-III}		55	90	120	220	270	435	780	1100	1475	1860	
Seat Ø	mm	63	80	100	125	150	200	250	300	350	400	500
Travel	mm	30			60			120				
	in	1.18			2.36			4.72				
Nominal size DN NPS		Version without flow divider · Areas highlighted in gray indicate versions also available with pressure balancing										
80	3	•	•									
100	4	•	•	•								
150	6	•	•	•	•	•						
200	8		•	•	•	•	•					
250	10		•	•	•	•	•	•				
300	12			•	•	•	•	•	•			
400	16					•	•	•	•	•	•	
500	20							•	•	•	•	•
Nominal size DN NPS		Version with flow divider St I · Areas highlighted in gray indicate versions also available with pressure balancing										
80	3	•	•									
100	4	•	•	•								
150	6	•	•	•	•	•						
200	8		•	•	•	•	•					
250	10		•	•	•	•	•	•				
300	12			•	•	•	•	•	•			
400	16					•	•	•	•	•	•	
500	20							•	•	•	•	•
Nominal size DN NPS		Version with flow divider St II · Areas highlighted in gray indicate versions also available with pressure balancing										
80	3	•	•*)									
100	4	•	•	•*)								
150	6	•	•	•	•	•*)						
200	8		•	•	•	•	•*)					
250	10		•	•	•	•	•	•*)				
300	12			•	•	•	•	•	•*)			
400	16					•	•	•	•	•	•*)	
500	20							•	•	•	•	•
Nominal size DN NPS		Version with flow divider St III · Areas highlighted in gray indicate versions also available with pressure balancing										
80	3											
100	4	•										
150	6	•	•	•	•							
200	8		•	•	•	•						
250	10		•	•	•	•	•					
300	12			•	•	•	•	•				
400	16					•	•	•	•	•		
500	20							•	•	•	•	•

Table 5 · Type 3256 Angle Valve · Direction of flow FTC

Table 5.1 · K_{Vs} and C_v coefficients for Type 3256 · Equal percentage characteristic

Type 3256 · Equal percentage characteristic with direction of flow FTC																	
K_{Vs}	4	6.3	10	13	20	30	47	54	70	85	144	220	320	400	600	950	
C_v	5	7.5	12	15	23	35	55	62	80	100	170	255	375	460	700	1100	
Seat Ø	mm	24		31	38	50		63	80		100	125	150	200		250	300
Travel	mm	15					30					60				120	
	in	0.59					1.18					2.36				4.72	
Nominal size		Version without flow divider · Pressure balancing on request															
DN	NPS																
25	1	•	•														
40	1½	•	•	•	•												
50	2	•	•	•	•	•	•										
80	3	•	•	•	•	•	•	•	•	•							
100	4				•	•	•	•	•	•	•						
150	6						•	•	•	•	•	•					
200	8							•	•	•	•	•	•	•			
250	10							•	•	•	•	•	•	•	•	•	
300	12									•	•	•	•	•	•	•	•

Table 5.2 · K_{Vs} and C_v coefficients for Type 3256 · Linear characteristic

Type 3256 · Linear characteristic with direction of flow FTC																	
K_{Vs}	4	6.3	10	13	20	35	54	85	115	220	280	480	860	1240			
C_v	5	7.5	12	15	23	40	62	100	135	255	325	560	1000	1440			
Seat Ø	mm	24		31		38	50	63	80	100	125	150	200	250	300		
Travel	mm	15					30					60				120	
	in	0.59					1.18					2.36				4.72	
Nominal size		Version without flow divider · Pressure balancing on request															
DN	NPS																
25	1	•	•														
40	1½	•	•	•	•	•											
50	2	•	•	•	•	•	•										
80	3	•	•	•	•	•	•	•	•								
100	4				•	•	•	•	•	•							
150	6						•	•	•	•	•						
200	8							•	•	•	•	•	•				
250	10							•	•	•	•	•	•	•	•		
300	12								•	•	•	•	•	•	•	•	•

Ordering text

Perforated plug for	Type Valve
Body material	According to associated data sheet
End connections	According to associated data sheet
Nominal size	DN / NPS
Nominal pressure	PN / Class
Flow coefficient	K _{vs} / C _v
Direction of flow	FTO (under the plug) FTC (over the plug)

For a retrofit, the details below are additionally required

Seat diameter mm
Travel mm



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